

## **RELATED APPLICATIONS**

[01] This application claims priority of the German patent application 102 50 100.9 which is incorporated by reference herein.

## **FIELD OF THE INVENTION**

[02] The invention concerns a microscope system for the analysis and evaluation of multiple colorings of a microscopic specimen.

[03] The invention further concerns a method for the analysis and evaluation of multiple colorings of a microscopic specimen.

[04] The invention additionally concerns a method for adjusting a microscope that is used for the recording of multiple colorings of a microscopic specimen.

## **BACKGROUND OF THE INVENTION**

[05] DE 100 65 783 A1 discloses a technique for sensing correlations in microscopic applications.

## **SUMMARY OF THE INVENTION**

[06] It is the object of the invention to create a microscope system with which the fluorescence spectra of multiple dyes present in a sample can reliably be separated.

[07] This object is achieved by means of a microscope system for the analysis and evaluation of multiple colorings in a microscopic specimen, comprising: a scanning microscope that defines an illuminating light beam and a detected light beam; an SP module that is arranged in the detected light beam in front of at least one detector; and a computer system with a memory, wherein a database is provided in which discrete dye spectra are stored; the computer system encompasses a software program that performs a transformation of the data of the ascertained spectra and a transformation of the dye spectra stored in the database; and the software program